(b) inserting a first coil group for a second electrical phase via the insertion tool into the stator core through a second end thereof opposite the first end;

(c) inserting a first coil group for a third electrical phase via the insertion tool into the stator core through the first end thereof;

(d) inserting a second coil group for the first electrical phase via the insertion tool into the stator core through the second end thereof;

(e) inserting a second coil group for the second electrical phase via the insertion tool into the stator core through the first end thereof; and

(f) inserting a second coil group for the third electrical phase via the insertion tool into the stator core through the second end thereof.

35. (previously presented) A method as set forth in claim 34, wherein the stator core is supported on a rotatable support structure, and wherein the support structure is rotated 180 degrees between first and second positions for each successive insertion step.

36. (previously presented) A method as set forth in claim 35, wherein the support structure has a centerline lying at a same location when the support structure is in the first and second positions.

37. (previously presented) A method as set forth in claim 34, wherein each coil group has leads exiting the stator core from the end through which the coil group is inserted.

38. (previously presented) A method as set forth in claim 34, wherein each coil group includes at least one winding disposed singularly in a winding slot of the stator core and a plurality of windings disposed in winding slots shared with windings of a different coil group.

39. (previously presented) A method as set forth in claim 38, wherein each coil group has two windings disposed singularly in respective winding slots and four windings disposed in respective winding slots shared with windings of a different coil group.

40. (previously presented) A method as set forth in claim 34, wherein the coil groups are configured and inserted to define a three-phase, two-pole stator.

41. (previously presented) A method for making an electric motor stator, the method comprising steps of:

(a) inserting a first coil group for a first electrical phase via an insertion tool into a stator core, leads of the first coil group exiting a first end of the stator core;

(b) inserting a second coil group for a second electrical phase via the insertion tool into the stator core, leads of the second coil group exiting a second end of the stator core opposite the first end;

(c) inserting a third coil group for a third electrical phase via the insertion tool into the stator core, leads of the third coil group exiting the first end of the stator core;

(d) inserting a fourth coil group for the first electrical phase via the insertion tool into the stator core, leads of the fourth coil group exiting the second end of the stator core;

(e) inserting a fifth coil group for the second electrical phase via the insertion tool into the stator core, leads of the fifth coil group exiting the first end of the stator core; and

(f) inserting a sixth coil group for the third electrical phase via the insertion tool, leads of the sixth coil group exiting the second end of the stator core.

42. (previously presented) A method as set forth in claim 41, wherein the stator core is supported on a rotatable support structure, and wherein the support structure

is rotated 180 degrees between first and second positions for each successive insertion step.

43. (previously presented) A method as set forth in claim 42, wherein the support structure has a centerline lying at a same location when the support structure is in the first and second positions.

44. (previously presented) A method as set forth in claim 41, wherein each coil group is inserted through the end of the stator core from the respective leads exit.

45. (previously presented) A method as set forth in claim 41, wherein each coil group includes at least one winding disposed singularly in a winding slot of the stator core and a plurality of windings disposed in winding slots shared with windings of a different coil group.

46. (previously presented) A method as set forth in claim 45, wherein each coil group has two windings disposed singularly in respective winding slots and four windings disposed in respective winding slots shared with windings of a different coil group.

47. (previously presented) A method as set forth in claim 41, wherein the coil groups are configured and inserted to define a three-phase, two-pole stator.

48.-54. (canceled).